From: <u>Joseph Rizzi</u>

To: Scoping, Delta Plan@Delta Council

Subject: New Naturally Desalinated rivers would solve CA"s water issues.

Date: Sunday, January 09, 2011 12:57:18 PM
Attachments: End Droughts with Natural Desal.pptx

Attached is my Power Point Presentation on utilizing "Natural Desalination" to solve California's Water issues. I am looking for support to make this dream of ending California's water issues a reality. Can you let me know your thoughts on the best way for me to go about this?

I am seeking various water groups "Vote of confidence" in this new type of Desalination that uses **ZERO** man made energy to desalinate new **RIVERS** of water.

This would end the water issues around:

- Water for Southern California.
- Water for the Farmers (central valley and southern)
- Water for the Delta and the peripheral canal.
- Droughts, and many other water issues.

Not Desalination – *Natural Desalination* ← eliminating all issues with traditional Desalination.

New rivers of Naturally Desalinated water is (not like current desalination processes) expandable to meet the needs of nations without harming the environment.

The added drought proof water from a consistently clean source.

Natural Desalination occurs at about ½ mile under the ocean with current Reverse Osmosis' membranes and can use gravity conveyance to move it to shore all while using ZERO energy (Nature's forces only).

How can I get the Delta Stewardship Council's vote of support?

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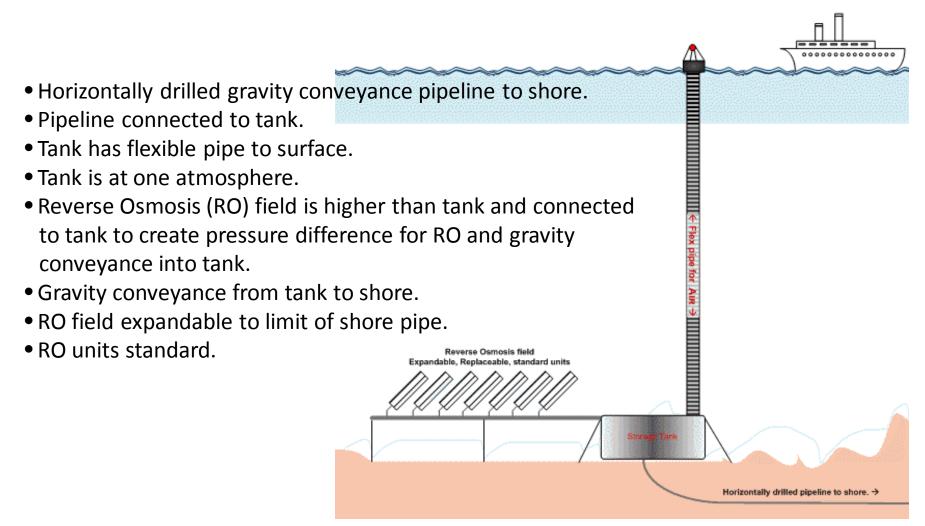
Ocean Floor Desalination

Zero energy for desalination and conveyance to shore

by Joseph Rizzi

- Reliable supply no droughts
- Low cost \$\$\$
- Environmentally friendly
- Extract and re-pressurize for state.
- Easily expandable and repeatable.

Ocean Floor one atmosphere structure for natural desalination



Reliable Supply - no droughts

- Located miles from shore makes the water supply less polluted by man kind.
- Constant supply year round.
- Transported to shore and/or inland via FREE gravity conveyance via horizontal well bore(s).
 Wells connected for long distances.
- Terrorist resistant by being under.
- Unlimited drinking water can be supplied.

Low cost \$\$\$

- Ocean floor site would have less issues than site on land and more expansion opportunities.
- Standard design brings down costs.
- Totally automated, few moving parts (valves).
- Maintenance (of filters) weekly or monthly.
- Remote monitoring.
- Automated fault (high volume) shut off valves.
- New stream source of endless desalted water.

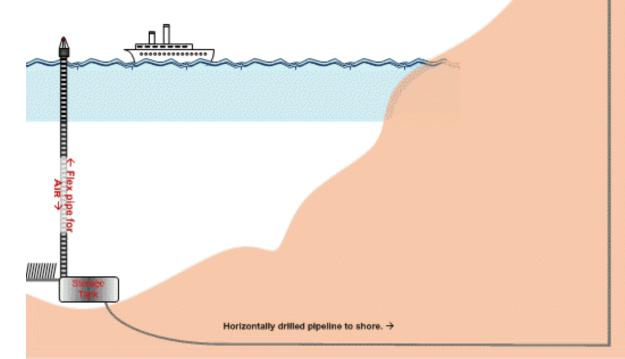
Environmentally Friendly

- Construction offshore, so site is easy to find and procure.
- No Visual Blight.
- Using horizontal drilling eliminates or reduces environmental issues verses trenches.
- No concentrated salt (brine) issues, since only water is extracted from sea water.
- Farming could increase with added endless water supply, which in turn would reduce green house gasses.
- New supply means healthier Sacramento delta.
- Fish and other ecosystems improve due to less diversions.
- Public health improves with consistently better water.

Extract and re-pressurize for state.

 Send salt free water to shore. Lifted and re-pressurized for distribution to city water treatment facilities and/or other conveyance distribution systems.

Connect cities via horizontally drilled pipelines.

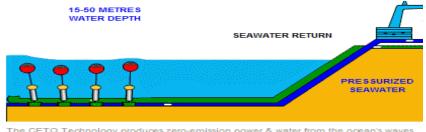


Easily expandable and repeatable.

- Standard Reverse Osmosis (RO) units.
- Connect as many RO units for volume desired.
- Zero energy costs.
- Ocean is constant & quality consistent.
- Horizontal drilling has been around & accurate.
- Automatic valves can insure quality by shutting off flow if excess water flow in pipes (by leaks).
- Flexible air pipe to surface, that helps create pressure differences, should not be a shipping problem since it would move aside if hit.

Options??

 Ocean power by <u>CETO Wave Power</u> to pump desalted water to surface?



 Other Wave, Wind, Solar and Tidal power are also readily available to make conveyance from sea shore to city water processing plants or to other conveyance like delta aqueduct totally green and renewable.